

ABSTRACT

An objective lens used for an optical pickup device wherein the optical pickup device includes: light source; and a converging optical system including the objective lens for converging a light beam emitted from the light source to an information recording surface of an optical information recording medium, and the optical pickup device is capable of recording and/or reproducing information by converging the light beam emitted from the light source to the information recording surface of the optical information recording medium with the converging optical system, the objective lens being a plastic single lens and satisfying following formulas when NA is an image-side numerical aperture required for recording and/or reproducing information to the optical information recording medium and  $f$  (mm) is a focal length of the objective lens. Even in a plastic single lens having a high NA, thermal aberration does not increase excessively, and in a plastic single lens of a refraction type, thermal aberration within the temperature range of practical use in an optical pickup device is suppressed within an allowable range.

$$NA \geq 0.8 \quad (1)$$

$$1.0 > f > 0.2 \quad (2)$$